${\scriptstyle 0}^{[-200} {\scriptstyle 0}^{200]} {\scriptstyle 0} {\scriptstyle 0}$ 

$$000000, 000 f(x) = f(x) = f(4 + x) = f(4 - x)$$

$$f(x+4) = f(4-x) = f(x-4)$$

$$\therefore 0 X_{0000} f^{2}(x) + af(x) > 0 0 0 4] 0 3 00000$$

$$f(x) = (0, \frac{e}{2}) = (0, \frac{e}{2})$$

$$\therefore a \cdot 0 = f^{2}(x) + af(x) > 0 = (0 = 4] = 4 = 0 = 0 = 0 = 0 = 0$$

$$00 f(x) < 00 (004] 000000$$

$$\therefore -a.f_{040} = \frac{3}{4} ln^2 - a < f_{030} = \frac{ln^6}{3} - a < f_{010} = ln^2 = ln^2$$

$$\therefore -\frac{\ln 6}{3} < a_n - \frac{3}{4} \ln 2$$

 $\square$   $\square$   $\square$   $\square$ 

$$\frac{1}{2}\vec{x} - n\vec{x} - ln\vec{x} - m < 0 \qquad m > \frac{\vec{x} - 2ln\vec{x}}{2(x+1)}$$

$$\frac{x^2 - 2\ln x}{2(x+1)} = f(x)$$

$$f(x) = \frac{x^{2} + 2x^{2} - 2x - 2 + 2x \ln x}{2x(x+1)^{2}}$$

$$0000 \ X \in (0,1) \ 000 \ U(X_0) = 3x_0^2 + 4x_0 + 2\ln x_0 = 0 \ 2\ln x_0 = -3x_0^2 - 4x_0 \ 0 = 0 \ 2\ln x_0 = 0 \ 0 = 0$$

$$u(x_{0}) = x_{0}^{2} + 2x_{0}^{2} - 2x_{0} - 2 + 2x_{0} \ln x_{0} = x_{0}^{2} + 2x_{0}^{2} - 2x_{0} - 2 + x_{0}(-3x_{0}^{2} - 4x_{0}) = -2x_{0}^{2} - 2x_{0}^{2} - 2x_{0}^{2}$$

$$u_{\square 1 \square} = 1 < 0_{\square} u_{\square 2 \square} = 10 + 4 ln 2 > 0_{\square}$$

$$0000 X \in (1,2) 000 U(X_1) = 0$$

$$0000 \; f(\textbf{X}) \; 0 \; (0,\textbf{X}_1) \; 0000000 \; (\textbf{X}_0 + \infty) \; 000000$$

00000 <sup>(a, b)</sup>0000000000

$$m_{000000} \left(\frac{1}{4}, \frac{2 - \ln 2}{3}\right)$$

$$1 \!<\! b \!<\! 2_{\square} 0 \!<\! a \!<\! 1_{\square \square \square} m_{\square \square \square \square}$$

 $_{\square\square\square}\,{}^{C}_{\square}$ 

 $^{200]}$ 

$$\therefore f(x)_{\square\square\square\square} T = 8_{\square}$$

$$\int_{0}^{\infty} X \in (0_{1}^{-4}]_{0}^{-1} f(x) = \frac{1 - \ln(2x)}{x^{2}}$$

$$0 < X < \frac{e}{2} | f(x) > 0 | \frac{e}{2} < X, 4 | f(x) < 0 |$$

$$f(x) = (0, \frac{e}{2}) = (0, \frac{e}{2}, 4] = (0, \frac{e}{2}, 4]$$

$$\therefore X_{0} = X_{0} = X_{0} = X_{0} = X_{0}$$

$$f'(x) + af(x) > 0_{\square}(0_{\square}4]_{\square\square}3_{\square\square\square\square\square\square\square\square\square\square\square\square\square}1_{\square}2_{\square}3_{\square}$$

$$\int_{1}^{1} \frac{f(3) + a > 0}{f(4) + a_{n} \cdot 0} \begin{cases} \frac{ln6}{3} + a > 0 \\ \frac{3ln2}{4} + a_{n} \cdot 0 \\ \frac{3ln2}{3} + a_{n} \cdot 0 \end{cases} - \frac{ln6}{3} < a_{n} - \frac{3ln2}{4}$$

$$(-\frac{ln6}{3} - \frac{3ln2}{4}]$$

## 010000 <sup>f(x)</sup>00000

$$0 < x < lna_{00} f(x) < 0 f(x) = 0 f($$

$$\begin{smallmatrix} a, & 1 \\ 0 & f(x) \\ 0 & (0, +\infty) \\ 0 & 0 \\$$

$$\square a > 1_{\square \square} f(x)_{\square} (0, lna)_{\square \square \square \square \square \square} (lna, +\infty)_{\square \square \square \square \square \square}$$

$$2000 f(x) = e^{x} - ax \cdot x^{2} \ln x_{0}(0, +\infty) \frac{e^{x}}{000000} - \frac{a}{x^{2}} - \frac{a}{x} - \ln x \cdot 0$$

$$D(X) = \frac{e^{X}}{X^{2}} - \frac{\partial}{\partial X} - InX(X > 0)$$

$$h'(x) = \frac{(x-2)e^x}{x^3} + \frac{a}{x^2} - \frac{1}{x} = \frac{(x-2)e^x - (x-a)x}{x^3}$$

$$\square \, e^{x} > \, x_{\square\square} \, h(x)_{\square}(0,2)_{\square \square \square \square \square \square \square}(2,+\infty)_{\square \square \square \square \square \square \square}$$

$$h(x)_{nm} = h(2) = \frac{e^{x}}{4} - \ln 2 - 1 > 0$$

$$\square e^x > x_{\square} \cdot (x-2)e^x > (x-a)x_{\square \square} h'(x) > 0_{\square}$$

$$\therefore_{\square} a > 2_{\square\square} h(x)_{\square} (2, a)_{\square \square \square \square \square}$$

$$000 a = 30000 h(x)_{0}(2,3)_{000000}$$

$$1 \quad 2 < e < 3_{\square \square} h(e) = e^{e^{-2}} - \frac{3}{e} - 1 < 0$$

### 

$$f(x) = \frac{e^{x} - ax}{x}(x > 0)$$

f(x) 0000000 a000000

$$f(x) = \frac{e^{x} - ax}{x} = \frac{e^{x}}{x} - a \quad f(x) = \frac{e^{x}(x-1)}{x^{2}}$$

$$||f(x) > 0||_{X} > 1_{X} > 1_{X} < 0_{X} < 0_{X} < 1_{X}$$

$$\dots \square \square \xrightarrow{f(x)} \square^{(0,1)} \square \square \square \square \square \square \square^{(1,+\infty)} \square \square \square \square \square \square$$

$$\therefore f(x)_{min} = f_{\boxed{1}} = e - a_{\boxed{}}$$

$$f(x) = f(x) = 0$$

$$\therefore a_{000000}(e+\infty)_{0}$$

$$f(x) = \frac{e^{x} - aX}{X} ... x ln x (0, +\infty)$$

$$\frac{\underline{e^{x}}}{\underline{x^{2}}} - \frac{\underline{a}}{\underline{x}} - \ln x.0 \qquad (0, +\infty)$$

$$I(X) = \frac{e^x}{X^2} - \frac{a}{X} - InX(X > 0)$$

$$\square \, e^x > X_\square \, h(x)_\square \, (0,2)_\square \, \dots \, (2,+\infty)_\square \, \dots \, \dots \,$$

$$h(x)_{mn} = h(2) = \frac{\vec{e}}{4} - \ln 2 - 1 > 0$$

② 
$$a > 2$$
  $a > 2$   $a > X > 2$   $a > X > 2$ 

$$\square e^x > X_{\square} \cdot (X^{-2}) e^x > (X^{-a}) X_{\square \square} h(x) > 0_{\square}$$

$$\therefore a > 2_{00} h(x)_{0} (2, a)_{000000}$$

$$a = 3$$
  $(2,3)$   $(2,3)$ 

$$1 \quad 2 < e < 3$$

000 <sup>2</sup>000000 20

$$600000 A = \{x \mid x^2 + 2x - 3 > 0\}_{000} B = \{x \mid x^2 - 2ax - 1, 0 a > 0\}_{0}$$

$$\log a = 1_{\log} A \cap B_{\log}$$

$$a = 1_{1} x^{2} - 2x - 1, 0$$

$$0001 - \sqrt{2}, X, 1 + \sqrt{2} 008 B = [1 - \sqrt{2} 01 + \sqrt{2}]$$

$$\therefore A \cap B = (1_{\square} 1 + \sqrt{2}]_{\square}$$

$$\lim_{x \to a} y = f(x) = x^2 - 2ax - 1_{00000} x = a > 0_{0}$$

$$f(0) = -1 < 0 \underset{\square \square}{\longrightarrow} A \bigcap B_{\square \square \square \square \square \square \square \square \square}$$

$$\therefore f_{\boxed{20}"} 0_{\boxed{0}} f_{\boxed{30}} > 0_{\boxed{0}} \begin{bmatrix} 4-4a-1, 0 \\ 9-6a-1>0 \\ 0 \end{bmatrix}$$

$$\frac{3}{4}$$
,  $a < \frac{4}{3}$ 

$$f(x) = \frac{X}{e^x}(x > 0)$$

020000 
$$g(x) = f(x) - m_{0000000000}$$

$$f(x) = \frac{X}{e^x}(x > 0)$$

$$f(x) = \frac{1 - x}{e^x}$$

$$0 < m < \frac{1}{e}$$

$$0 < m < \frac{$$

$$\int f(x) > a_{0000000000} f(x)_{000000} f_{010} = \frac{1}{e_0} 0 < 1 < 2_0$$

$$f_{\square 2\square} = \frac{2}{\vec{e}}_{\square}$$

$$a \in \left[\frac{2}{e^{i}} \, \frac{1}{e^{i}} \, \frac{1}{e^{$$

$$0 = \frac{1}{e^2} \left( \frac{2}{e^2} - \frac{1}{e^2} \right) = 0 = 0 = 0 \quad f^2(x) - af(x) > 0 = 0 = 0 = 0 = 0 = 0$$

$$0000 \stackrel{a}{=} 000000 \left[\frac{2}{\overrightarrow{e}} \, _{\square} \frac{1}{e}\right)_{\square}$$

$$F(\vec{x}) = \frac{\ln x}{x}$$

$$0100 \, f(x) \, 0[2 \, 0a](a > 2) \, 000000$$

020000 
$$X_{0000} f^{2}(x) + mf(x) > 0$$
 000000000000  $m_{000000}$ 

$$f(x) = \frac{\ln x}{x} \quad f(x) = \frac{1 - \ln x}{x^2}$$

$$\lim_{X \in (0,e)} f(x) = \frac{1 - \ln x}{x^2} > 0$$

$$X \in (C, +\infty) \bigcap f(X) = \frac{1 - \ln X}{X^2} < 0$$

$$\int_{0}^{1} \frac{1}{4} dt = \frac{\ln 4}{4} = \frac{\ln 2}{2} = f$$

$$0004..a > e_{00}f(x)_{0000}f_{020} = \frac{h2}{2}$$

$$a > 4_{\bigcirc \bigcirc} f(x)_{\bigcirc \bigcirc \bigcirc} f_{\bigcirc a} = \frac{lna}{a}_{\bigcirc}$$

$$000002 < a, 4_{00} f(x)_{0000} f_{020} = \frac{h2}{2}_{0}$$

$$a > 4_{\square \square} f(x)_{\square \square \square} f_{\square a \square} = \frac{lna}{a}_{\square}$$

$$= f(x) = (0, e) = (e + \infty) = 0$$

$$f(x) = \frac{1}{e_{000}} f(x) = \frac{\ln x}{x} > 0$$

$$f(x) < 0_{0000} (0,1)_{00000}$$

$$000 X_{0000} f^{2}(\mathbf{X}) + n\mathbf{f}(\mathbf{X}) > 0$$

$$00^{-1} f_{050}$$
" -  $m < f_{020} = f_{040} < f_{030}$ 

$$\frac{ln\overline{5}}{5}, -m < \frac{ln2}{2}, -\frac{ln2}{2} < m, -\frac{ln\overline{5}}{5}$$

0000 
$$X_{0000} f^2(x) + nf(x) > 0$$

 $0 \int f(x) > 0$ 

$$900000 f(x) = \frac{ln(2x)}{x}$$

$${^{(I)}}_{\Box} \ {^{f(x)}}_{\Box\Box\Box} {^{[1}}_{\Box} \ {^{a]}} {^{(a>1)}}_{\Box\Box\Box\Box\Box\Box}$$

$$(II)_{000} x_{0000} f^{2}(x) + m\mathbf{f}(x) > 0_{0000000000} m_{000000}$$

$$f(x) = \frac{1 - \ln(2x)}{x^2} \prod_{x \to 0} f(x) > 0 \prod_{x \to 0} f(x) = 0$$

$$1 \quad x \in [I_{\square} a]_{\square \square \square} \quad 1 < a, \quad \frac{e}{2}_{\square \square} f(x)_{\square} [1_{\square} a]_{\square \square \square \square \square}$$

$$\frac{e}{1} < a, 2 \qquad f(x) \qquad f(x) \qquad f(x) = \ln 2$$

$$\int_{a>2} f(x) \int_{a=0}^{a=1} f(x) = \frac{h2a}{a}$$

$$00001 < a$$
,  $2_{00} f(x)_{00000} f_{010} = ln2_{0}$ 

$$\int_{a>2} f(x) \int_{a=0}^{a=1} f(x) = \frac{\ln 2a}{a}$$

0000000 
$$f_{030}$$
" -  $m < f_{010} = f_{0200}$ 

$$\therefore -\ln 2 < m, -\frac{1}{3}\ln 6$$

$$00000 m_{000000} (-h_{20} - \frac{1}{3} ln_{6}]$$

$$f(x) = \frac{\ln(2x)}{x}$$

 $X_{0000}$   $f^{2}(x) + Mf(x) > 0$  0000000000  $M_{000000}$ 

$$f(x) = \frac{\ln(2x)}{X} \prod_{x} f(x) = \frac{1 - \ln(2x)}{x^2}$$

$$\int f(x) < 0 \quad \text{and} \quad X > \frac{e}{2} \quad \text{and} \quad f(x) \quad \text{and} \quad \left(\frac{e}{2}, +\infty\right)$$

$$\mathbf{11}_{\square\square\square\square\square} \ f(x) = x - \mathbf{1}_{\square} \ g(x) = (ax - 1) e^x_{\square}$$

$$(I)I(X) = X - \frac{f(X)}{e^{x}} = X - \frac{X - 1}{e^{x}} I(X) = \frac{e^{x} + X - 2}{e^{x}}$$

$$U(X) = e^x + X - 2 R_{000000}$$

$$_{\square} \, u(0) = -1_{\square} \, u_{\square \mathbf{1}\square} = e \text{--} \, 1 > 0_{\square}$$

$$\dots \bigcup \mathcal{X} \in (0,1) \bigcup \mathcal{U}(\mathcal{X}) = 0 \bigcup \mathcal{H}(\mathcal{X}) = 0 \bigcup \mathcal{$$

$$x\in (-\infty,x_0) \underset{\square}{\cap} h(x) < 0 \underset{\square \square \square \square \square}{\cap} h(x) \underset{\square \square \square \square \square}{\cap} x\in (x_0 \underset{\square}{\cap} +\infty) \underset{\square}{\cap} h(x) > 0 \underset{\square \square \square}{\cap} h(x)$$

$$X = X_0$$

$$\lim_{x \to 0} af(x) > g(x) \lim_{x \to 0} a(x - \frac{f(x)}{e^x}) < 1 \quad \text{at } (x) < 1$$

$$\therefore h(x)_{\square} x \in Z_{\square \square} h(x) ... 1_{\square}$$

$$\therefore ah(x) < 1_{000000000}$$

$$\frac{1}{a} (2) \dots \frac{1}{a}$$

$$\frac{1}{a} (1) \dots \frac{1}{a} \frac{e}{2e-1} a < 1$$

 $\therefore h(x)_{\square} x \in Z_{\square \square \square \square \square \square} 1_{\square} \cdot \square_{\square \square} ah(x) < 1_{\square \square \square \square}$ 

$$\frac{\vec{e}}{2\vec{e}-1}$$
"  $a<1$ 

$$\mathbf{1200000}\ f(x) = a(x - 1) \mathop{\square} g(x) = e^{x} (bx - 1) \mathop{\square} a \in R_{\square}$$

$$0100 b = 20000 y = f(x) - g(x) 0000000 a000000$$

$$000000100 b = 2_{00} g(x) = e^{x} (2x - 1)_{0}$$

$$y = f(x) - g(x) = f(x) = g(x) = \frac{e^{x}(2x-1)}{x-1}(x \neq 1)$$

$$F(x) = \frac{e^{x}(2x-1)}{x-1}(x \neq 1)$$

$$F(x) = \frac{e^{x}x(2x-3)}{(x-1)^{2}}$$

$$= F(x) = (-\infty, 0) = (0, 1) = (0, 1) = (1, \frac{3}{2}) = (\frac{3}{2}, +\infty) = (0, 0) = (0, 1) = (0,$$

$$\bigcup_{x \in \mathcal{Y}} y = f(x) - g(x) \bigcup_{x \in \mathcal{Y}} g(x)$$

$$\prod_{\alpha \in (0,1) \cup (4e^{\frac{3}{2}},+\infty)} \prod_{\alpha \in (0,1) \cup (4e^{\frac{3}{2}},+\infty)} \prod_{\alpha$$

$$200b = a_{000} f(x) > g(x) \frac{\partial(x-\frac{x-1}{e^x})}{1} < 1$$

$$h(x) = x - \frac{x - 1}{e^x}$$
  $h(x) = \frac{e^x + x - 2}{e^x}$ 

$$\square \, \omega(0) = -1 < 0 \, \square \, \omega \, \square \, \square = e - 1 > 0 \, \square \, \square \, \omega(x) \, \square \, R_{\square \square \square \square \square \square} \, x_{\wp}(0,1) \, \square$$

$$= h(x) - (-\infty, x) - (-\infty,$$

$$\therefore H(x)_{nm} = H(x_0) = \frac{X_0 e^{x_0} - X_0 + 1}{e^{x_0}}$$

$$\bigcap_{x \in \mathcal{C}_{k}} e^{x} > x + 1 \bigcap_{x \in \mathcal{C}_{k}} h(x_{0}) = \frac{x_{0}^{(1)} e^{x_{0}} - x_{0}^{(1)} + 1}{e^{x_{0}}} > \frac{x_{0}^{(2)} + 1}{e^{x_{0}}} > 0$$

$$\ \, \underset{\square}{\square} \, X, \, \, 0_{\,\square\square} \, h(x)...h(0) = 1 > 0_{\,\square\square} \, X..1_{\,\square\square} \, h(x)...h_{\,\square\square\square} = 1_{\,\square}$$

$$\lim_{X \in \mathcal{L}_{0}} h(x) ... \min\{h(0) \underset{1}{\cap} h_{0} = 1... \frac{1}{a} \underset{1}{\cap} h(x) < \frac{1}{a} \underset{1}{\cap} h(x) = \frac{1}{a} \lim_{X \in \mathcal{L}_{0}} h(x) = \frac{1}{a} \lim_{X \in \mathcal{L}_{0}}$$

$$h(x) < \frac{1}{a} = \frac{h(x)}{a} - \frac{1}{a} = \frac{1}{a} - \frac{e^{2}}{2e^{2} - 1} = \frac{1}{a} = \frac{1}{a} - \frac{1}{a} = \frac$$

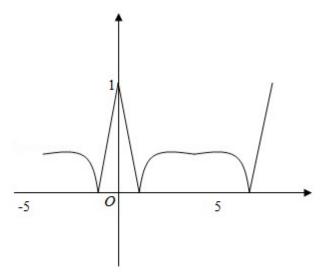
$$\mathbf{n}^{a \in \left[\frac{\vec{e}}{2\vec{e} - 1}\right]_{0}}$$

1300000 
$$f(x) = nx^{e}_{000000} A(2,2)_{0}$$

$$\frac{ln2}{2}, -n < \frac{ln3}{3} - \frac{ln3}{3} < n, -\frac{ln2}{2} = n < 0$$

#### 

$$-\frac{hB}{3} < \eta_r - \frac{hD}{2}$$



 $0100^{a}=100$ 

① 
$$\bigcap f(x) \bigcap X = -\frac{1}{2}$$

2 000 <sup>f(x)</sup> 000000

02000000000  $X_0$ 000  $f(X_0) < 0$ 0000 a000000

$$000000100 \ a = 100 \ f(x) = e^{x}(2x-1) - x+1_{0} \cdot f(x) = e^{x}(2x+1) - 1_{0}$$

$$f(-\frac{1}{2}) = -1 \qquad f(-\frac{1}{2}) = -2e^{\frac{1}{2}} + \frac{3}{2}$$

$$f(x) = \frac{1}{2} \int_{0}^{x} x^{2} dx + \frac{1}{2} \int_{0}^{x} (-2e^{\frac{1}{2}} + \frac{3}{2}) = -1(x + \frac{1}{2}) \int_{0}^{x} y^{2} + x + 2e^{\frac{1}{2}} - 1 = 0$$

$$f(x) = e^{x}(2x+1) - 1$$

$$f(0) = 0 \\ \bigcirc X \in (0, +\infty) \\ \bigcirc e^x > 1 \\ \bigcirc 2X + 1 > 1 \\ \bigcirc \cdot f(X) > 0 \\ \bigcirc X \in (-\infty, 0) \\ \bigcirc 0 < e^x < 1 \\ \bigcirc 2X + 1 < 1 \\ \bigcirc \cdot f(X) < 0 \\ \bigcirc 0$$

$$\dots \square \square \xrightarrow{f(x)} \square \overset{(-\infty,0)}{\square} \square \square \square \square \square \square \overset{(0,+\infty)}{\square} \square \square \square \square \square \square$$

$$g(x) = \frac{e^{x}(2x-1)}{x-1} \underbrace{g'(x)} = \frac{e^{x}(2x^{2}-3x)}{(x-1)^{2}} = \frac{e^{x}x(2x-3)}{(x-1)^{2}}$$

$$\therefore g(-1), a_{\square \square} \stackrel{a}{\longrightarrow} \frac{3}{2e_{\square}} \therefore \frac{3}{2e''} \stackrel{a<1}{\longrightarrow}$$

$$g(\frac{3}{2}) = 4e^{\frac{3}{2}} < a$$

$$\int_{\cdot\cdot\cdot} \left\{ g(3) < a \atop g(3) \dots a \atop 0000 \right\} 3\vec{e} < a, \frac{5\vec{e}}{2}$$

$$f(x) = (x-1)e^{x} - \frac{a}{2}x^{2} = 0 = a \in R_{\square}$$

alooo f(x) and an x-and an x-and x-an

$$0 \text{ for } A \text{ for } X_1 \in R_0 \text{ for } X_2 \in (0, +\infty) \text{ for } f(X_1 + X_2) \text{ for } f(X_1 - X_2) > -2X_2 \text{ for } f(X_1 -$$

$$0000 \stackrel{f(x)}{=} 0000 \stackrel{X_{00000}}{=} (t^0)_0$$

$$\int_{0}^{\infty} f(t) = 0$$

$$\int_{0}^{\infty} f(t) = 0$$

$$\int_{0}^{\infty} (t-1)\dot{e} - \frac{a}{2}\dot{t} = 0$$

$$\dot{e} - at = 0$$

$$0 t \neq 0 d = a > 0$$

$$\triangle = -4 < 0$$

$$\Leftrightarrow f(X_1 + X_2) + (X_1 + X_2) > f(X_1 - X_2) + (X_1 - X_2)$$

$$g(x) = f(x) + X_{0000000} g(x_1 + x_2) > g(x_1 - x_2)_{0}$$

$$\therefore g'(x) = xe^x - ax + 1.0_{\square} R_{\square\square\square\square\square}$$

$$\therefore g(x)..0_{\square} R_{\square \square \square \square \square \square \square \square \square} a_n e+1_{\square}$$

$$000000 a = 3_{00} Xe^{x} - 3x + 1.0_{0000}$$

$$\square X < 0 \bigcirc \square \dot{H}(X) < 0 \bigcirc \square X > 0 \bigcirc \square \dot{H}(X) > 0 \bigcirc \square$$

$$\therefore H(x)_{min} = 0 \quad \forall x \in R_{\square} e^x ... x + 1_{\square}$$

000 <sup>a</sup>000000 30



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